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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/842,899	04/27/2001	Mohamed Anisur Rahman	2925-0469P	7572

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EXAMINER
RAMPURIA, SHARAD K

ART UNIT	PAPER NUMBER
2683	4

DATE MAILED: 12/23/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/842,899

Applicant(s)

RAHMAN ET AL.

Examiner

Sharad K. Rampuria

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: ____

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DETAILED ACTION

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gossman et al., Pepe et al., Malackowski et al., Campbell.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, & 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Welling, Jr. et al. in view of Patel.

1. Regarding Claim 1, Welling disclosed A system of billing in a user configurable wireless network (abstract), comprising:

a base station controller to establish and maintain communication between a wireless unit and the wireless network; (14,16,18; fig.1; col.2; 20-28)

a home location register in operative communication with the base station controller to support applications and services; (40; fig.1; col.2; 39-44)

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a service data node module in operative communication with the base station controller and the home location register to coordinate the applications and services supported by the home location register; (42; fig. 1; col.2; 39-44)

a user end in operative communication with the service data node, allowing the user to implement service creation and service negotiation without service provider intervention; (32; fig. 1; col.2; 49-53) and

Welling fails to disclosed a billing manager. However, Patel teaches in an analogous art, that a billing manager in operative communication with the service data node module, to bill the user based on the user implemented service creation and service negotiation. (140; fig.3; col.5; 34-56) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a billing manager in order to provide consolidate the user defined text message with billing records for a particular call.

3. Regarding Claim 3, Welling disclosed all the particulars of the claim except a database to store quality of services. However, Patel teaches in an analogous art, that The system of claim 1, wherein the billing manager further comprises:

a billing mediator in operative connection with the service data node to receive and distribute data from the service data node; (140; fig.3; col.5; 34-56)

a billing processor in operative connection with the billing mediator to process the data from the billing mediator; (140; fig.3; col.5; 34-56)

a billing order manager in operative connection with the billing processor to manage the processed data from the billing processor; (140; fig.3; col.5; 34-56). and

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a customer information processor in operative connection with the billing order manager to process customer information. (140; fig.3; col.5; 34-56) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a billing manager in order to provide consolidate the user defined text message with billing records for a particular call.

Claims 4-34, & 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Welling, Jr. et al. in view of Lohtia et al.

4. Regarding Claim 4, Welling disclosed A system allowing service creation and negotiation in a wireless network (abstract), comprising:

a receiver to receive a request from a user to create or negotiate a service; (col.3; 39-55) and a central processing node to process the request by comparing the request with user information, service information (col.3; 56-64) and

Welling fails to disclosed the requested service to the user based upon the comparison. However, Lohtia teaches in an analogous art, that network information dynamically stored therein, and to provide the requested service to the user based upon the comparison. (pg.2; 0021) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the requested service to the user based upon the comparison in order to provide information to a communication device in response to a request for particular service.

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5. Regarding Claim 5, Welling disclosed The system of claim 4, wherein the central processing node further comprises a first database having the network information dynamically stored therein. (col.4; 13-33)

6. Regarding Claim 6, Welling disclosed The system of claim 5, wherein the central processing node further comprises a second database having the user information dynamically stored therein. (col.4; 13-33)

7. Regarding Claim 7, Welling disclosed The system of claim 4, further comprising a first database having the network information dynamically stored therein. (col.4; 13-33)

8. Regarding Claim 8, Welling disclosed The system of claim 7, further comprising a second database having the user information dynamically stored therein. (col.4; 13-33)

9. Regarding Claim 9, Welling disclosed The system of claim 4, wherein the central processing node compares the network information and the user information without having to access any other portions of the wireless network. (col.4; 13-33)

10. Regarding Claim 10, Welling disclosed all the particulars of the claim except the central processing node periodically updates the network information and the user information.

However, Lohtia teaches in an analogous art, that The system of claim 4, wherein the central processing node periodically updates the network information and the user information. (pg.2;

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0021) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the central processing node periodically updates the network information and the user information in order to provide information to a communication device in response to a request for particular service.

11. Regarding Claim 11, Welling disclosed A system allowing service creation and negotiation in a wireless network (abstract), comprising:

at least a first database storing network information and user information; (col.3; 56-64) and a central processing node processing user requests by accessing the first database, (col.3; 56-64)

Welling fails to disclosed the requested service to the user based upon the comparison. However, Lohtia teaches in an analogous art, that comparing the requests with the network information and the user information dynamically stored in the first database, and providing the requested services to the users based upon the comparisons. (pg.2; 0021) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the requested service to the user based upon the comparison in order to provide information to a communication device in response to a request for particular service.

12. Regarding Claim 12, Welling disclosed The system of claim 11, wherein the first database has the network information and the user information dynamically stored therein, the network information being wireless network information. (col.4; 13-33)

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13. Regarding Claim 13, Welling disclosed all the particulars of the claim except the Web-based network information. However, Lohtia teaches in an analogous art, that The system of claim 12, further comprising:

a second database having Web-based network information dynamically stored therein; and wherein the central processing node compares the requests with the network information and the user information stored in the first and second databases. (pg.4; 0032) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include Web-based network information in order to provide information to a communication device in response to a request for particular service.

14. Regarding Claim 14, Welling disclosed The system of claim 11, wherein the central processing node accesses the first database without having to access any other portions of the wireless network. (col.4; 13-33)

15. Regarding Claim 15, Welling disclosed The system of claim 11, wherein the central processing node periodically updates at least the first database with updated network and user information. (col.4; 13-33)

16. Regarding Claim 16, Welling disclosed The system of claim 11, wherein the first database has a plurality of portions being physically distributed throughout the entire wireless network, the distributed portions being connectively linked with the central processing node. (col.4; 13-33)

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17. Regarding Claim 17, Welling disclosed The system of claim 11, wherein the central processing node includes the first database. (col.4; 13-33)

18. Regarding Claim 18, Welling disclosed A method of billing for service creation and/or negotiation in a wireless network (abstract), comprising:

receiving a request for service creation or negotiation; (col.3; 39-55)

accessing a logically linked dynamic storage in accordance with the request; (col.3; 56-64)

billing for the requested service. (col.4; 59-64)

Welling fails to disclosed the requested service to the user based upon the comparison. However, Lohtia teaches in an analogous art, that obtaining, from the storage, service information associated with the request; obtaining, from the storage, user information associated with the service information; obtaining, from the storage, network information associated with the user information; comparing the service information and user information with the associated network information; providing the requested service based on the comparison;; (pg.2; 0021)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the requested service to the user based upon the comparison in order to provide information to a communication device in response to a request for particular service.

19. Regarding Claim 19, Welling disclosed The method of claim 18, wherein the logically linked dynamic storage is dynamically updated in accordance with the user and network information. (col.4; 13-33)

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20. Regarding Claim 20, Welling disclosed The method of claim 18, wherein the step of providing the requested service is performed by accessing the logically linked dynamic storage without having to access any other portions of the network to minimize signal overloading. (col.4; 13-33)

21. Regarding Claim 21, Welling disclosed A method of billing for service creation and/or negotiation in a wireless network (abstract), comprising:
receiving a request for service creation or negotiation; (col.3; 39-55)
accessing a logically linked dynamic storage in accordance with the request; (col.3; 56-64)
billing for the requested service. (col.4; 59-64)

Welling fails to disclosed the requested service to the user based upon the comparison. However, Lohtia teaches in an analogous art, that obtaining, from the storage, service information associated with the request; obtaining, from the storage, user information associated with the service information; obtaining, from the storage, network information associated with the user information; comparing the service information and user information with the associated network information; providing the requested service based on the comparison;; (pg.2; 0021)
Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the requested service to the user based upon the comparison in order to provide information to a communication device in response to a request for particular service.

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22. Regarding Claim 22, Welling disclosed The method of claim 21, wherein the logically linked dynamic storage is dynamically updated in accordance with the user, service and network information. (col.4; 13-33)

23. Regarding Claim 23, Welling disclosed The method of claim 21, wherein the step of providing the requested service is performed by accessing the logically linked dynamic storage without having to access any other portions of the network. (col.4; 13-33)

24. Regarding Claim 24, Welling disclosed A method of billing for service creation and negotiation in a wireless network (abstract), comprising:
receiving a request from a user to create or negotiate a service; (col.3; 39-55)
accessing a storage having user information, service information and network information stored therein; (col.3; 56-64)
billing the user for the provided data service. (col.4; 59-64)

Welling fails to disclosed the requested service to the user based upon the comparison. However, Lohtia teaches in an analogous art, that comparing the request with the user information, the service information and the network information; providing the data service to the user based upon the comparison; (pg.2; 0021) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the requested service to the user based upon the comparison in order to provide information to a communication device in response to a request for particular service.

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25. Regarding Claim 25, Welling disclosed The method of claim 24, further comprising:
periodically obtaining user, service and network information; and
dynamically updating the storage by periodically storing the periodically obtained user, service
and network information. (col.4; 13-33)

26. Regarding Claim 26, Welling disclosed The method of claim 25, wherein the dynamic
storing includes storing network information into at least a first database. (col.4; 13-33)

27. Regarding Claim 27, Welling disclosed The method of claim 26, wherein the dynamic
storing includes storing user information into a second database. (col.4; 13-33)

28. Regarding Claim 28, Welling disclosed The method of claim 24, wherein the accessing step
is performed without having to access any other portions of the wireless network. (col.4; 13-33)

29. Regarding Claim 29, Welling disclosed A method of user configurable for service creation
and negotiation in a wireless network (abstract), comprising:
receiving a request from a user to create or negotiate a service; (col.3; 39-55)
accessing a storage having user information, service information and network information stored
therein; (col.3; 56-64)
billing the user for the provided data service. (col.4; 59-64)

Welling fails to disclosed the requested service to the user based upon the comparison.
However, Lohtia teaches in an analogous art, that comparing the request with the user

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information, the service information and the network information; providing the data service to the user based upon the comparison; (pg.2; 0021) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the requested service to the user based upon the comparison in order to provide information to a communication device in response to a request for particular service.

30. Regarding Claim 30, Welling disclosed The method of claim 29, further comprising a step of dynamically storing the network information and the user information into the first database, the network information being wireless network information. (col.4; 13-33)

31. Regarding Claim 31, Welling disclosed all the particulars of the claim except the Web-based network information. However, Lohtia teaches in an analogous art, that The method of claim 30, further comprising a step of dynamically storing Web-based network information into a second database. (pg.4; 0032) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include Web-based network information in order to provide information to a communication device in response to a request for particular service.

32. Regarding Claim 32, Welling disclosed The method of claim 29, wherein the accessing step is performed without having to access any other portions of the wireless network. (col.4; 13-33)

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33. Regarding Claim 33, Welling disclosed The method of claim 30, further comprising the step of periodically updating at least the first database with updated network and user information.

(col.4; 13-33)

34. Regarding Claim 34, Welling disclosed A method of billing in a wireless network communications system (abstract), the method comprising:

establishing a database in the wireless network; (col.3; 39-55)

providing services into the database; (col.3; 56-64)

billing the user based on the selected service. (col.4; 59-64)

Welling fails to disclosed allowing a user to select a service by accessing the database without service provider intervention. However, Lohtia teaches in an analogous art, that allowing a user to select a service by accessing the database without service provider intervention; (pg.2; 0021) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include allowing a user to select a service by accessing the database without service provider intervention in order to provide information to a communication device in response to a request for particular service.

37. Regarding Claim 37, Welling disclosed The method of claim 34, wherein the billing is based on a profile change of the user. (col.4; 1-9)

38. Regarding Claim 38, Welling disclosed all the particulars of the claim except content push services. However, Lohtia teaches in an analogous art, that The method of claim 34, wherein the

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to include transaction based services in order to provide transaction based billing for telephone services.

Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Welling, Jr. et al. & Lohtia et al. further in view of Cook et al.

40. Regarding Claim 40, The above combination disclosed all the particulars of the claim except a call-by-call or session-by-session basis. However, Cook teaches in an analogous art, that The method of claim 34, wherein the billing is performed on a call-by-call or session-by-session basis. (col.6; 25-35) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a call-by-call or session-by-session basis in order to provide dynamically assigning interfaces to the user.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Welling, Jr. et al. & Patel further in view of Bianconi et al.

2. Regarding Claim 2, The above combination disclosed all the particulars of the claim except a database to store quality of services. However, Bianconi teaches in an analogous art, that The system of claim 1, wherein the service data node module further comprises:

a database to store quality of services; (0010; pg.2).

a dynamic billing information processor in operative communication with the database, to determine actual use of a service on a call-by-call or session-by-session basis; (0010; pg.2) and

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a radius accounting server in operative communication with the dynamic billing information processor, to correlate the determined actual use from the dynamic billing information processor. (0033; pg.4). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a database to store quality of services in order to provide location based billing of data services.

Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Welling, Jr. et al. & Lohtia et al. further in view of Bianconi et al.

36. Regarding Claim 36, The above combination disclosed all the particulars of the claim except a database to store quality of services. However, Bianconi teaches in an analogous art, that The method of claim 34, wherein the billing is based on a quality of service of the selected service. (0010; pg.2). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include a database to store quality of services in order to provide location based billing of data services.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is 703-308-4736. The examiner can normally be reached on Mon-Thu. (8:15-5:45) alternate Fri.(8:15-4:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 703-308-5318. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

Sharad K. Rampuria
December 12, 2003



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